

Χαρακτηριστικά:

- Serves as a **one-stop resource** for key concepts and information on radiologic imaging and interpretation of the spine, neck, and central nervous system
- Contains **six robust sections**, each beginning with normal imaging anatomy and covering all aspects of this challenging field: Congenital and Genetic Disorders, Trauma, Degenerative Diseases and Arthritides, Infection and Inflammatory Disorders, Peripheral Nerve and Plexus, and Spine Postprocedural/Posttreatment Imaging
- Features **3,200+ high-quality print images (with an additional 2,100+ images in the complimentary eBook)**, including radiologic images, full-color medical illustrations, clinical photographs, histologic images, and gross pathologic photographs
- Provides **new and expanded content** on CSF leak disorder and root sleeve leak; CSF-venous fistulas; demyelinating disease based upon better knowledge of MS; neuromyelitis optica spectrum disorder; anti-MOG disorders; malignant nerve sheath tumor and paragangliomas; and spinal ependymomas, including myxopapillary and classical cellular spinal ependymoma
- Contains **new chapters** on both imaging technique and diseases/disorders, and existing chapters have been rearranged to better represent current information on inflammatory and autoimmune disorders and systemic manifestations of diseases
- Provides **updates from cover to cover**, including overviews and new recommendations for evaluation of transitional spinal anatomy (spine enumeration), which have important and practical applications in routine imaging with downstream effects on spine intervention
- Uses **bulleted, succinct text and highly templated chapters** for quick comprehension of essential information at the point of care
- **Includes an eBook** that allows you access to everything in the print version as well as **additional images, text, and references**, with the ability to search, customize your content, make notes and highlights, and have content read aloud; additional digital ancillary content may publish up to 6 weeks following the publication date

Περιεχόμενα:

Part I: Congenital and Genetic Disorders

Section 1: Congenital

NORMAL ANATOMICAL VARIATIONS

Normal Anatomy

Measurement Techniques

MR Artifacts

Normal Variant

Transitional Anatomy and Spinal Enumeration

Transitional Anatomy and Spinal Enumeration

Craniovertebral Junction Variants

Ponticulus Posticus

Ossiculum Terminale

Conjoined Nerve Roots

Limbus Vertebra

Filum Terminale Fibrolipoma

Bone Island

Ventriculus Terminalis

CHIARI DISORDERS

Approach to Chiari

Chiari 1

Complex Chiari

Chiari 2

Chiari 3

ABNORMALITIES OF NEURULATION

Approach to Spine and Spinal Cord Development

Myelomeningocele

Lipomyelomeningocele

Lipoma, Spine

Dorsal Dermal Sinus

Simple Coccygeal Dimple

Dermoid Cyst, Spine

Epidermoid Cyst, Spine

ANOMALIES OF CAUDAL CELL MASS

Tethered Spinal Cord

Segmental Spinal Dysgenesis

Caudal Regression Syndrome

Terminal Myelocystocele

Anterior Sacral Meningocele

Sacral Extradural Arachnoid Cyst

Sacrococcygeal Teratoma

ANOMALIES OF NOTOCHORD AND VERTEBRAL FORMATION

Craniovertebral Junction Embryology

Paracondylar Process

Split Atlas

Klippel-Feil Spectrum

Failure of Vertebral Formation

Vertebral Segmentation Failure

Split Cord Malformation

Partial Vertebral Duplication

Incomplete Fusion, Posterior Element

Neurenteric Cyst

DEVELOPMENTAL ABNORMALITIES

Os Odontoideum

Lateral Meningocele

Dorsal Spinal Meningocele

Dural Dysplasia

Section 2: Genetic Disorders

Neurofibromatosis Type 1, Spine

Neurofibromatosis Type 2, Spine

Schwannomatosis

Achondroplasia

Mucopolysaccharidoses, Spine

Sickle Cell Disease, Spine

Osteogenesis Imperfecta

Tuberous Sclerosis

Osteopetrosis

Gaucher Disease

Ochronosis

Connective Tissue Disorders

Spondyloepiphyseal Dysplasia

Part II: Trauma

Section 1: Vertebral Column, Discs, and Paraspinal Muscle

Fracture Classification

Atlantooccipital Dislocation

Ligamentous Injury

Occipital Condyle Fracture

Jefferson C1 Fracture

Atlantoaxial Rotatory Fixation

Odontoid C2 Fracture

Burst C2 Fracture

Hangman's C2 Fracture

Apophyseal Ring Fracture

Cervical Hyperflexion Injury

Cervical Hyperextension Injury

Cervical Burst Fracture

Cervical Hyperextension-Rotation Injury

Cervical Lateral Flexion Injury

Cervical Posterior Column Injury

Traumatic Disc Herniation

Thoracic and Lumbar Burst Fracture

Facet-Lamina Thoracolumbar Fracture

Fracture Dislocation

Chance Fracture

Thoracic and Lumbar Hyperextension Injury

Compression Fracture

Lumbar Facet-Posterior Fracture

Sacral Traumatic Fracture

Pedicle Stress Fracture

Sacral Insufficiency Fracture

Section 2: Cord, Dura, and Vessels

SCIWORA

Posttraumatic Syrinx

Presyrinx Edema

Spinal Cord Contusion-Hematoma

Central Spinal Cord Syndrome

Traumatic Dural Tear

Traumatic Epidural Hematoma

Traumatic Subdural Hematoma

Vascular Injury, Cervical

Traumatic Arteriovenous Fistula

Wallerian Degeneration

Part III: Degenerative Diseases and Arthritides

Section 1: Degenerative Diseases

Nomenclature of Lumbar Degenerative Disc Disease

Degenerative Disc Disease

Degenerative Endplate Changes

Degenerative Arthritis of Craniovertebral Junction

Disc Bulge

Anular Fissure, Intervertebral Disc

Cervical Intervertebral Disc Herniation

Thoracic Intervertebral Disc Herniation

Lumbar Intervertebral Disc Herniation

Intervertebral Disc Extrusion, Foraminal

Cervical Facet Arthropathy

Lumbar Facet Arthropathy

Facet Joint Synovial Cyst

Baastrup Disease

Bertolotti Syndrome

Schmorl Node

Scheuermann Disease

Acquired Lumbar Central Stenosis

Congenital Spinal Stenosis, Idiopathic

Cervical Spondylosis

DISH

OPLL

Ossification Ligamentum Flavum

Retroodontoid Pseudotumor

Section 2: Spondylolisthesis and Spondylolysis

Spondylolisthesis

Spondylolysis

Instability

Section 3: Inflammatory, Crystalline, and Miscellaneous Arthritides

Adult Rheumatoid Arthritis

54 Juvenile Idiopathic Arthritis

Spondyloarthropathy

Neurogenic (Charcot) Arthropathy

Hemodialysis Spondyloarthropathy

Ankylosing Spondylitis

CPPD

Gout

Longus Colli Calcific Tendinitis

Section 4: Scoliosis and Kyphosis

Introduction to Scoliosis

Scoliosis

Kyphosis

Degenerative Scoliosis

Flat Back Syndrome

Scoliosis Instrumentation

Part IV: Infection and Inflammatory Disorders

Section 1: Infections

Pathways of Spread

Spinal Meningitis

Pyogenic Osteomyelitis

Tuberculous Osteomyelitis

Fungal and Miscellaneous Osteomyelitis

Osteomyelitis, C1-C2

Brucellar Spondylitis

Septic Facet Joint Arthritis

Paraspinal Abscess

Epidural Abscess

Subdural Abscess

Abscess, Spinal Cord

Viral Myelitis

HIV Myelitis

Syphilitic Myelitis

Opportunistic Infections

Echinococcosis

Schistosomiasis

Cysticercosis

Section 2: Inflammatory and Autoimmune Disorders

Acute Transverse Myelopathy

Idiopathic Acute Transverse Myelitis

Multiple Sclerosis

Neuromyelitis Optica Spectrum Disorder

Myelin Oligodendrocyte Glycoprotein Autoantibody Myelitis

ADEM, Spine

Guillain-Barré Syndrome

CIDP

Chronic Recurrent Multifocal Osteomyelitis

Grisel Syndrome

Autoimmune-Mediated Myelopathy

Hypertrophic Pachymeningitis-Related Diseases

Section 3: Neoplasms, Cysts, and Other Masses

NEOPLASMS

INTRODUCTION AND OVERVIEW

Spread of Neoplasms

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Imaging of Metastatic Disease

Blastic Osseous Metastases

Lytic Osseous Metastases

Hemangioma

Osteoid Osteoma

Osteoblastoma

Aneurysmal Bone Cyst

Giant Cell Tumor

Osteochondroma

Chondrosarcoma

Osteosarcoma

Chordoma

Ewing Sarcoma

Lymphoma

Leukemia

Plasmacytoma

Multiple Myeloma

Neuroblastic Tumors

Langerhans Cell Histiocytosis

Angiolipoma

INTRADURAL EXTRAMEDULLARY

Schwannoma

Malignant Melanotic Nerve Sheath Tumors

Meningioma

Solitary Fibrous Tumor/Hemangiopericytoma

Neurofibroma

Malignant Nerve Sheath Tumors

CSF Disseminated Metastases

Cauda Equine Neuroendocrine Tumor

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Astrocytoma

Diffuse Midline Glioma H3 K-27 Altered
Ependymoma
Myxopapillary Ependymoma
Hemangioblastoma
Spinal Cord Metastases
Primary Melanocytic Neoplasms/Melanocytoma
Ganglioglioma
NONNEOPLASTIC CYSTS AND TUMOR MIMICS
CYSTS
CSF Flow Artifact
Meningeal Cyst
Perineural Root Sleeve Cyst
Syringomyelia
NONNEOPLASTIC MASSES AND TUMOR MIMICS
Epidural Lipomatosis
Normal Fatty Marrow Variants
Fibrous Dysplasia
Calcifying Pseudoneoplasm of Neuraxis
Kümmell Disease
Hirayama Disease
CSF LEAK DISORDERS
Introduction and Overview of CSF Leak
Intracranial Hypotension
Techniques for CSF Leak Detection
Techniques for CSF Leak Detection
Fast CSF Leak/Meningeal Diverticulum
Fast CSF Leak/Ventral Dural Tear
Slow CSF Leak/CSF Venous Fistula
Idiopathic Spinal Cord Herniation
VASCULAR
VASCULAR ANATOMY AND CONGENITAL LESIONS
Vascular Anatomy
Persistent First Intersegmental Artery
Persistent Hypoglossal Artery
Persistent Proatlantal Artery
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Spinal Dural Arteriovenous Fistula (Type 1)
Spinal Cord Arteriovenous Malformation (Type 2)
Complex Spinal Cord Arteriovenous Malformation (Type 3)
Spinal Perimedullary Fistula (Type 4)
Conus Arteriovenous Malformation
Posterior Fossa Dural Fistula With Intraspinous Drainage
Spinal Epidural Arteriovenous Fistula
Cavernous Malformation

VASCULAR MISCELLANEOUS

Spinal Artery Aneurysm
Spinal Cord Infarction
Subarachnoid Hemorrhage
Spontaneous Epidural Hematoma
Subdural Hematoma
Superficial Siderosis
Hematomyelia/Nontraumatic Cord Hemorrhage
Bow Hunter Syndrome
Vertebral Artery Dissection

SYSTEMIC DISORDERS

SPINAL MANIFESTATIONS OF SYSTEMIC DISEASES

Osteoporosis
Paget Disease
Hyperparathyroidism
Renal Osteodystrophy
Hyperplastic Vertebral Marrow
Myelofibrosis
Bone Infarction
Extramedullary Hematopoiesis
Tumoral Calcinosis
Sarcoidosis
Hemophilic Pseudotumor
EBV-Associated Smooth Muscle Tumor
Subacute Combined Degeneration

Part V: Peripheral Nerve and Plexus

Section 1: Plexus and Peripheral Nerve Lesions

Normal Plexus and Nerve Anatomy
Superior Sulcus Tumor
Thoracic Outlet Syndrome
Muscle Denervation
Brachial Plexus Traction Injury
Idiopathic Brachial Plexus Neuritis
Traumatic Neuroma
Radiation Plexopathy
Peripheral Nerve Sheath Tumor
Peripheral Neurolymphomatosis
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Part VI: Spine Postprocedural/Posttreatment Imaging

Section 1: Postoperative Imaging and Complications

Surgical Approaches
Normal Postoperative Change

Postoperative Spinal Complications
Myelography Complications
Vertebroplasty Complications
Failed Back Surgery Syndrome
Recurrent Disc Herniation
Peridural Fibrosis
Arachnoiditis/Adhesions
Arachnoiditis Ossificans
Adjacent Segment Degenerative Disease
Proximal Junctional Failure
Postoperative Infection
Pseudomeningocele
Postsurgical Deformity and Functional Kyphosis
Radiation Myelopathy
Postirradiation Vertebral Marrow

Section 2: Hardware

Metal Artifact
Occipitocervical Fixation
Plates and Screws
Cages
Interbody Fusion Devices
Interspinous Spacing Devices
Cervical Artificial Disc
Lumbar Artificial Disc
Hardware Failure
Bone Graft Complications
rhBMP-2 Complications
Heterotopic Bone Formation
Section 3: Post Radiation and Chemotherapy Complications
Anterior Lumbar Radiculopathy